

Amendments to the Claims:

1 (currently amended): A computer-implemented method for automatically tuning a size of a TCP receive window on a receiving computing device, comprising:

automatically determining a bandwidth of a network connection of a receiving computing device on the receiving computing device; and

 automatically tuning the size of the TCP receive window on the receiving computing device based on the determined bandwidth; wherein the automatically tuning comprises setting the size of the current TCP receive window directly on the receiving computing device by the receiving computing device without manual intervention and wherein setting the size of the current TCP receive window sets the number of packets allowed to be sent from a sending computer device to the receiving computing device before an acknowledgment is sent from the receiving computing device to the sending computing device; wherein setting the size of the TCP receive window includes setting a value that is stored on the receiving computing device that is referenced for each TCP connection setup; wherein the value setting the receiving computing device is different from a parameter within a TCP packet that indicates the size of the TCP receive window on the receiving computing device.

2 (previously presented): The method of Claim 1, wherein determining the bandwidth of the network connection, further comprises:

 obtaining at least one attribute of a network connection device; and

 determining the bandwidth of the network connection from the at least one obtained attribute.

3 (previously presented): The method of Claim 2, wherein automatically tuning the size of the TCP receive window based on the determined bandwidth further comprises:

 determining the size of the TCP receive window based on the determined bandwidth; and

 setting the size of the TCP receive window to the determined size.

4 (previously presented): The method of Claim 3, wherein determining the size of the TCP receive window based on the determined bandwidth further comprises accessing the size of the TCP receive window from a look-up table, wherein the look-up table includes at least three different sizes from which the size of the TCP receive window is selected.

5 (original): The method of Claim 2, wherein determining the at least one attribute of the network connection device further comprises determining a speed of the network connection device or a name of the network connection device.

6 (previously presented): The method of Claim 1, further comprising:
monitoring the network connection to determine if the network connection has changed; and
tuning the size of the TCP receive window if the network connection has changed.

7 (currently amended): A computer-readable medium having computer-executable instructions for automatically tuning a size of a TCP receive window on a receiving computing device, comprising:

determining a network connection device on the receiving computing device;
determining a throughput of a the network connection device of the receiving computing device; wherein the receiving computing device is a user device; and
determining a size to set the TCP receive window based on the determined throughput by accessing a data structure and extracting the size from the data structure based on the determined throughput; wherein the data structure is segmented based on bandwidth of a connection device; wherein the data structure includes at least three different sizes to set the TCP receive window; and wherein the data structure includes sizes to set the TCP receive window for at least three different operating system;

automatically tuning the size of the TCP receive window directly on the receiving computing device by the receiving computing device based on the determined throughput of the connection by setting the size of the TCP receive window automatically without manual intervention and wherein setting the size of the TCP receive window sets the number of packets

allowed to be sent from a sending computer device to the receiving computing device before an acknowledgment is sent from the receiving computing device to the sending computing device; wherein setting the size is performed by the receiving computing device and involves setting a value within a configuration database that is accessed by the operating system of the receiving computing device; wherein the value for the TCP receive window is referenced when a TCP connection is setup; wherein the value is different from a parameter within a TCP packet that indicates the size of the TCP receive window on the receiving computing device; and
determining when the network connection has changed by monitoring a connection of network hardware that is associated with the network connection and when the network connection changes automatically tuning the size of the TCP receive window.

8 (previously presented): The computer-readable medium of Claim 7, further comprising:

monitoring the throughput of the connection to determine if the throughput of the connection has changed; and

automatically tuning the size of the TCP receive window if the throughput of the connection has changed.

9 (previously presented): The computer-readable medium of Claim 8, wherein determining the throughput of the connection, further comprises:

polling a network connection device for at least one attribute; and

receiving the at least one attribute from the network connection device; and

determining the throughput of the connection from the at least one received attribute.

10 (previously presented): The computer-readable medium of Claim 9, wherein automatically tuning the size of the TCP receive window based on the determined throughput further comprises:

looking up the size of the TCP receive window based on the determined throughput, and

setting the size of the TCP receive window to the looked up size.

11 (currently amended): An apparatus for automatically tuning a size of a receive window, comprising:

a processor and a computer-readable medium;

an operating environment stored on the computer-readable medium and executing on the processor;

a network connection device operating under the control of the operating environment; and

an automatic tuning device operating under the control of the operating environment and operative to perform actions, including:

determining a bandwidth of the network connection; and

setting the size of the receive window based on the determined bandwidth without manual intervention and wherein setting the size of the receive window sets the number of packets allowed to be sent from a sending computer device to the apparatus before an acknowledgment is sent from the apparatus to the sending computing device; wherein setting the size is performed by the receiving computing device and involves adjusting a value that is maintained on the receiving computing device.

12 (previously presented): The apparatus of Claim 11, wherein determining the bandwidth of the network connection device, further comprises:

obtaining at least one attribute of the network connection device; and

determining the bandwidth of the network connection device from the at least one attribute.

13 (previously presented): The apparatus of Claim 12, wherein obtaining the at least one attribute of the network connection device further comprises determining a speed of the network connection device or a name of the network connection device.

14 (previously presented): The apparatus of Claim 13, further comprising:

monitoring the network connection device to determine if the network connection device has changed; and

tuning the size of the receive window if the network connection device has changed.

15 (previously presented): The method of Claim 1, wherein automatically tuning the size of the TCP receive window based on the determined bandwidth further comprises determining the size of the TCP receive window from a look-up table based on the determined bandwidth; wherein the look-up table includes at least three different sizes from which the size of the TCP receive window is selected.

16 (previously presented): The method of Claim 1, wherein automatically tuning the size of the TCP receive window based on the determined bandwidth further comprises determining a current operating system and setting the size of the TCP receive window based on the determined bandwidth and the operating system.

17 (previously presented): The method of Claim 2, wherein the at least one attribute is a name of a network connection device.

18 (previously presented): The computer-readable medium of Claim 7, wherein tuning the size of the TCP receive window based on the determined throughput of the connection comprises sizing the TCP receive window based on a type of network connection device.

19 (previously presented): The apparatus of Claim 11, wherein automatically tuning the size of the TCP receive window based on the determined bandwidth further comprises determining the size of the TCP receive window by accessing a look-up table based on the determined bandwidth.

20 (previously presented): The apparatus of Claim 11, wherein automatically tuning the size of the TCP receive window based on the determined bandwidth further comprises

determining a version of the operating environment executing on the processor and setting the size of the TCP receive window based on the determined bandwidth and the operating environment.